Efficient Monitoring of Cloud Infrastructure

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Infrastructure Monitoring

- Why is it important?
  - uninterrupted services

- What can we monitor?
  - low level: infrastructure
  - high level: services

- Who is it for?
  - enterprise, small business, home

Cloud

- Is monitoring any different?
- Challenges:
  - large number of devices
  - geographically distributed
  - higher expectations of availability
- Higher level of automation is necessary

SLA (Service Level Agreement)

- SLA compliance monitoring
- user expectations can be (much) higher
- how:
  - alarms
  - reports
  - trends prediction

Security

- Network devices' configuration backups
  - TFTP, SSH, telnet
- Periodic security tests
- Monitoring system becomes a potential target
  - standard security measures
  - audit logs (crucial if monitoring system allows infrastructure modifications)

Notification Delivery Goes Mobile

- traditional: e-mail, SMS
  - content == series of messages

- emerging: mobile apps
  - delivery through push notifications
  - content is presented through app

- main advantage
  - less noise == less chance of overlooking important information

Questions?